

Recovery Plan Action Status

Plan Name: Bellflower/Water-Willow (2 spp.)

Plan Status: Final

Plan Date: 20-Jun-94

Lead Agency: USFWS

Lead Office: North Florida Ecological Services Field Office

(204)

232-2580)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Cooley's water-willow (Justicia cooley), Brooksville bellflower (Campanula robinsiae)	1	1.1	Secure known sites within government-owned lands	Ongoing Not Current	Prior to FY 1995		Florida Game and Fresh Water Fish Commission, Florida Department of Transportation, Florida Department of Agriculture and Consumer Services, including Forestry Division, Florida Department of Agriculture and Consumer Services, Division of Plant Industry, U.S. Fish and Wildlife Service, Southeast Region	Work type not yet selected	Labor type not yet selected	Should be complete by year 2
Cooley's water-willow (Justicia cooley), Brooksville bellflower (Campanula robinsiae)	1	1.21	Determine habitat and population/reproductive needs	Not Started			University , U.S. Fish and Wildlife Service, Southeast Region	Work type not yet selected	Labor type not yet selected	For all tasks with Responsible Parties: UNIV - University or other research organizations with plant systematics facilities
Brooksville bellflower (Campanula robinsiae)	1	1.22	Study relationship between hydrology and reproductive success (Campanula)	Ongoing Not Current	Prior to FY 1995		University , U.S. Fish and Wildlife Service, Southeast Region, Southwest Florida Water Management District	Work type not yet selected	Labor type not yet selected	
Brooksville bellflower (Campanula robinsiae)	3	1.23	Taxonomic/systematic studies	Not Started			University , Florida Natural Areas Inventory	Work type not yet selected	Labor type not yet selected	

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Cooley's water-willow (Justicia cooley), Brooksville bellflower (Campanula robinsiae)	1	1.31	Conduct site analyses (for government-owned lands)	Ongoing Current			Botanical Gardens, Florida Department of Agriculture and Consumer Services, including Forestry Division, Florida Department of Agriculture and Consumer Services, Division of Plant Industry, U.S. Fish and Wildlife Service, Southeast Region	Management: Population Monitoring, Management: Predator and Competitor Control	Internal Technical Assistance, Species Expert	Ongoing for Brooksville bellflower at USDA site by Bok Gardens.
Cooley's water-willow (Justicia cooley), Brooksville bellflower (Campanula robinsiae)	1	1.321	Prepare management plan: actions to diminish threats	Not Started			Florida Game and Fresh Water Fish Commission, The Nature Conservancy, University, U.S. Fish and Wildlife Service, Southeast Region, Southwest Florida Water Management District	Work type not yet selected	Labor type not yet selected	
Cooley's water-willow (Justicia cooley), Brooksville bellflower (Campanula robinsiae)	1	1.322	Prepare management plan: control exotic species	Ongoing Not Current	Prior to FY 1995		Florida Game and Fresh Water Fish Commission, The Nature Conservancy, University, U.S. Fish and Wildlife Service, Southeast Region, Managing Agencies	Work type not yet selected	Labor type not yet selected	May be underestimate; pest plants are a major problem. Responsible Parties: MGE - Government agencies owning or managing land in the Chinsegut Hill area: U.S. Dept. of Agriculture, Agricultural Research Service, Subtropical Agricultural Research Station; U.S. Dept of Agriculture, Soil Conservation Service, Plant Materials Center; Florida Game and Fresh Water Fish Commission, Chinsegut Nature Center

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Cooley's water-willow (Justicia cooley), Brooksville bellflower (Campanula robinsiae)	2	1.323	Develop education program for land managers	Not Started			The Nature Conservancy, Florida Department of Transportation, U.S. Fish and Wildlife Service, Southeast Region, Southwest Florida Water Management District	Work type not yet selected	Labor type not yet selected	
Cooley's water-willow (Justicia cooley), Brooksville bellflower (Campanula robinsiae)	1	1.33	Implement management plan	Not Started			U.S. Fish and Wildlife Service, Southeast Region, Managing Agencies	Work type not yet selected	Labor type not yet selected	Long-term management. Responsible Parties: MGE - Government agencies owning or managing land in the Chinsegut Hill area: U.S. Dept. of Agriculture, Agricultural Research Service, Subtropical Agricultural Research Station; U.S. Dept of Agriculture, Soil Conservation Service, Plant Materials Center; Florida Game and Fresh Water Fish Commission, Chinsegut Nature Center
Cooley's water-willow (Justicia cooley), Brooksville bellflower (Campanula robinsiae)	1	2.1	Acquire private lands currently known to contain the species	Not Started			The Nature Conservancy, Florida Natural Areas Inventory, Florida Conservation and Recreation Lands Program, U.S. Fish and Wildlife Service, Southeast Region, Southwest Florida Water Management District	Work type not yet selected	Labor type not yet selected	Any FWS funding is budgeted elsewhere. \$150,000 minimum?

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Cooley's water-willow (Justicia cooley), Brooksville bellflower (Campanula robinsiae)	1	2.2	Locate suitable funding for land acquisition efforts	Not Started			The Nature Conservancy, Florida Natural Areas Inventory, Florida Conservation and Recreation Lands Program, U.S. Fish and Wildlife Service, Southeast Region, Southwest Florida Water Management District	Work type not yet selected	Labor type not yet selected	
Cooley's water-willow (Justicia cooley), Brooksville bellflower (Campanula robinsiae)	1	2.3	Seek non-acquisition methods of protecting habitats	Not Started			The Nature Conservancy, U.S. Fish and Wildlife Service, Southeast Region, Southwest Florida Water Management District, Withlacoochee Regional Planning Council	Work type not yet selected	Labor type not yet selected	Provide funds to TNC and others to seek agreements
Cooley's water-willow (Justicia cooley), Brooksville bellflower (Campanula robinsiae)	1	2.4	Use governmental regulation to protect species and habitats	Not Started			Florida Game and Fresh Water Fish Commission, Florida Department of Agriculture and Consumer Services, Division of Plant Industry, Florida Department of Community Affairs, U.S. Fish and Wildlife Service, Southeast Region, Southwest Florida Water Management District, Withlacoochee Regional Planning Council	Work type not yet selected	Labor type not yet selected	
Cooley's water-willow (Justicia cooley), Brooksville bellflower (Campanula robinsiae)	2	2.5	Phase acquisition efforts based upon results of surveys	Not Started			Florida Game and Fresh Water Fish Commission, The Nature Conservancy, U.S. Fish and Wildlife Service, Southeast Region, Southwest Florida Water Management District	Work type not yet selected	Labor type not yet selected	

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Brooksville bellflower (Campanula robinsiae)	2	3	Conduct additional surveys for populations of the species	Ongoing Current	FY 2006		Florida Game and Fresh Water Fish Commission, Florida Natural Areas Inventory, U.S. Fish and Wildlife Service, Southeast Region	Work type not yet selected	Labor type not yet selected	Further searches for Brooksville bellflower were started in 2010 and have continued into 2011 by Bok Gardens. New locations were found in 2006 at Hillsborough River State Park
Cooley's water-willow (Justicia cooleyi), Brooksville bellflower (Campanula robinsiae)	2	4	Augment existing cultivated populations; establish a germ plasm bank	Partially Complete	Prior to FY 1995		Botanical Gardens, University , U.S. Fish and Wildlife Service, Southeast Region	Work type not yet selected	Labor type not yet selected	
Cooley's water-willow (Justicia cooleyi), Brooksville bellflower (Campanula robinsiae)	2	5.1	Assess ability of habitat to support the species	Not Started			University	Work type not yet selected	Labor type not yet selected	Could be done at same time as 1.21 and 1.3
Brooksville bellflower (Campanula robinsiae)	3	5.21	Locate suitable/potential reintroduction sites	Ongoing Current			University , Florida Natural Areas Inventory, U.S. Fish and Wildlife Service, Southeast Region	Work type not yet selected	Labor type not yet selected	Bok Gardens has been looking for new reintroduction sites in Hillsborough and Hernando Co. in 2010 and continuing into 2011
Brooksville bellflower (Campanula robinsiae)	3	5.22	Reintroduction techniques and sources of plant material	Ongoing Current			Botanical Gardens, University	Work type not yet selected	Labor type not yet selected	Source plants were collected at the Young Site and being held at Bok Gardens until suitable sites can be found for introduction. Techniques for reintroduction are being conducted.
Brooksville bellflower (Campanula robinsiae)	3	5.23	Establish trial introduction program	Ongoing Current			Botanical Gardens, The Nature Conservancy, University , U.S. Fish and Wildlife Service, Southeast Region	Work type not yet selected	Labor type not yet selected	Working with Bok Gardens to start a trial introduction program at possible sites in Hillsborough Co.

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Brooksville bellflower (Campanula robinsiae)	3	5.24	Develop and implement a reintroduction program	Ongoing Current			Botanical Gardens, The Nature Conservancy, University	Work type not yet selected	Labor type not yet selected	Plants have been collected and sites being looked to implement reintroduction of Campanula at different sites.
Cooley's water-willow (Justicia cooleyi), Brooksville bellflower (Campanula robinsiae)	2	5.3	Establish monitoring program to meet recovery criteria	Not Started			The Nature Conservancy, University, U.S. Fish and Wildlife Service, Southeast Region	Work type not yet selected	Labor type not yet selected	
Cooley's water-willow (Justicia cooleyi), Brooksville bellflower (Campanula robinsiae)	2	6	Arrange law enforcement	Not Started			U.S. Fish and Wildlife Service, Law Enforcement Division, Florida Department of Agriculture and Consumer Services, Division of Plant Industry	Work type not yet selected	Labor type not yet selected	